

Offset Phase Angle =  $360^\circ \times \text{Offset Distance} / \text{Twist Pitch}$

FIG. 1  
(PRIOR ART)

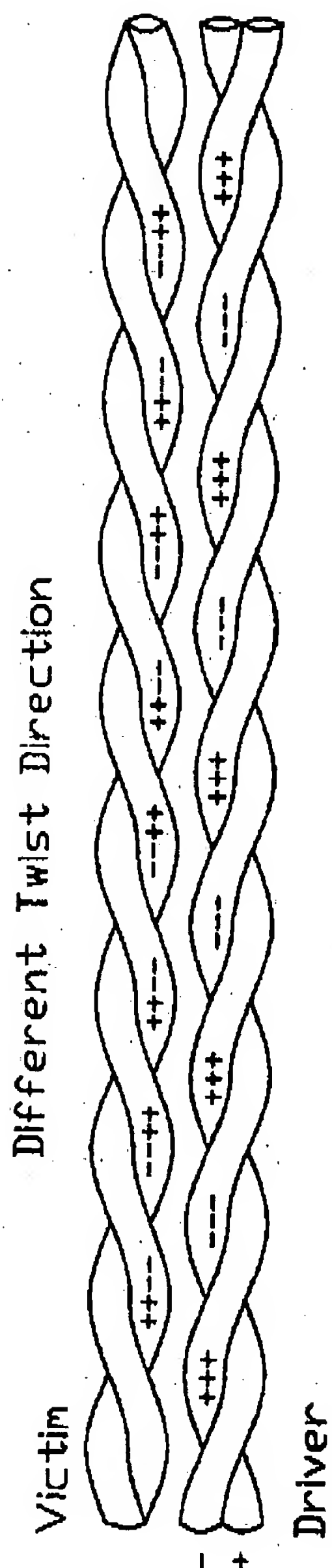


FIG. 2A  
(PRIOR ART)

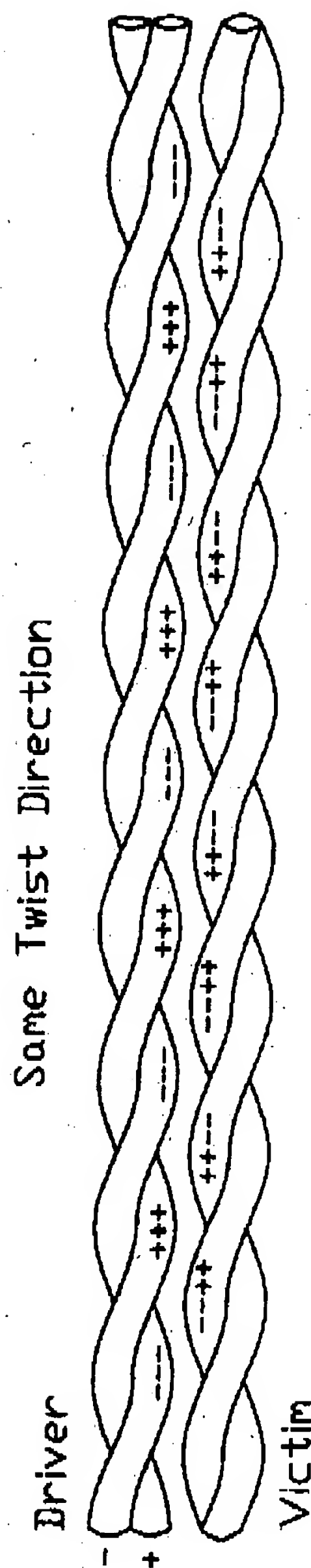
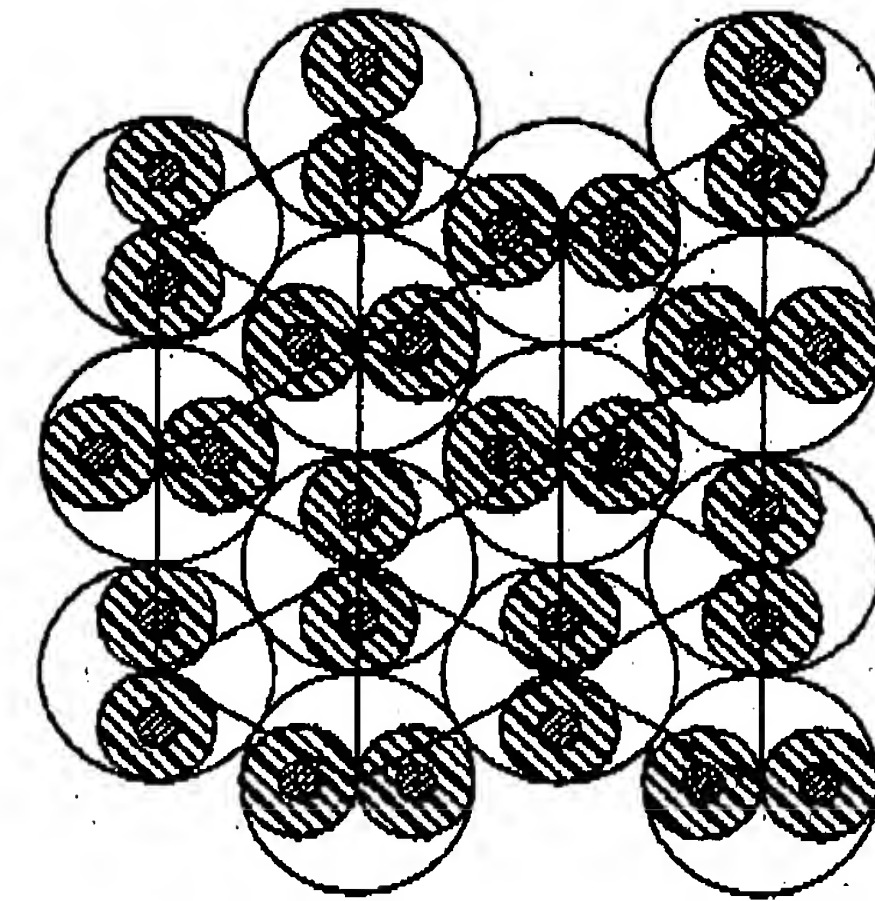


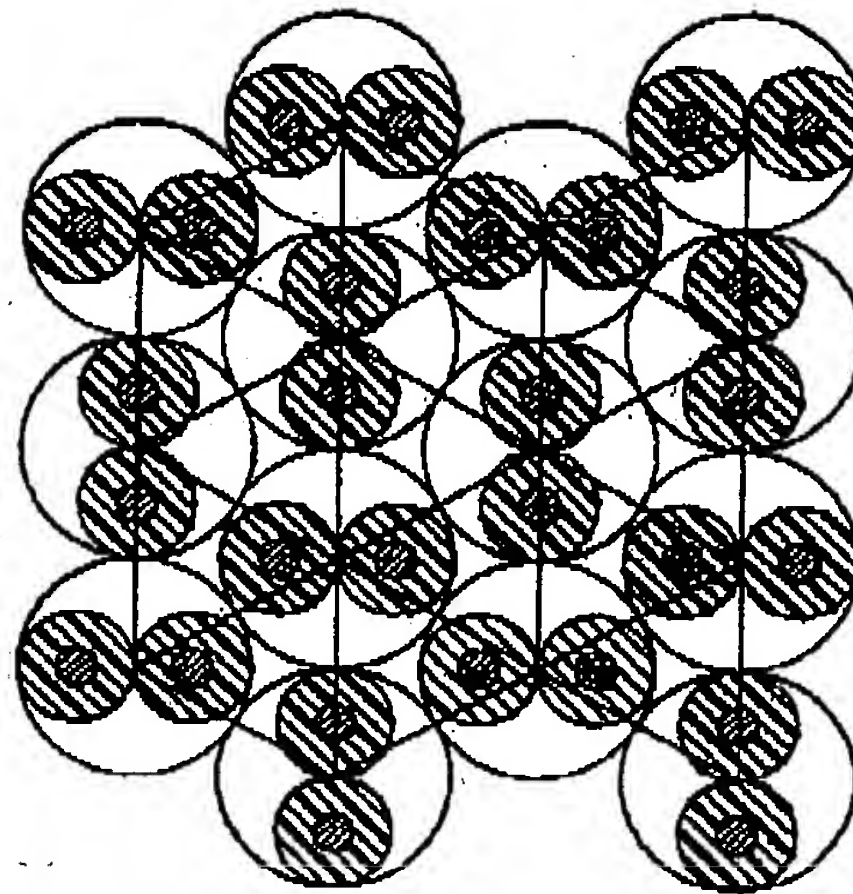
FIG. 2B  
(PRIOR ART)



06: 50 degrees

FIG. 3A

FIG. 3B



0 degree

FIG. 3A

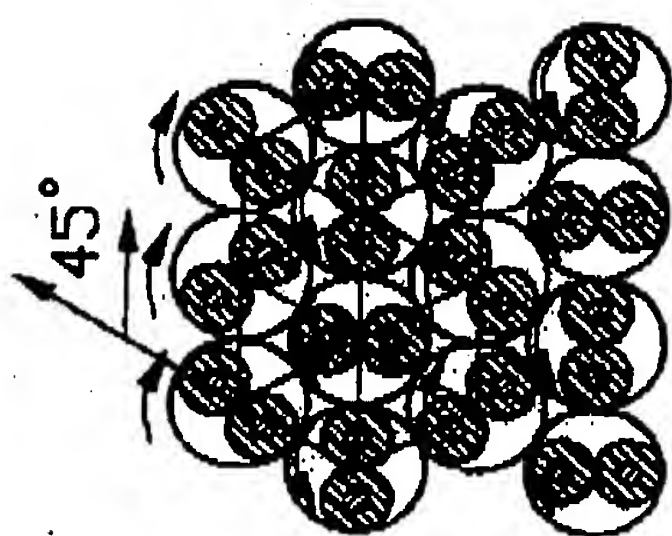
FIG. 3B

## Twist Pitch 2

## Twist Pitch 1

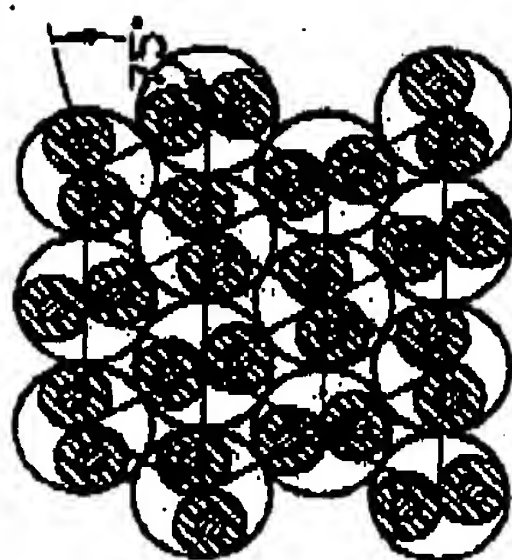
## Twist Pitch 2

# Twist Pitch I



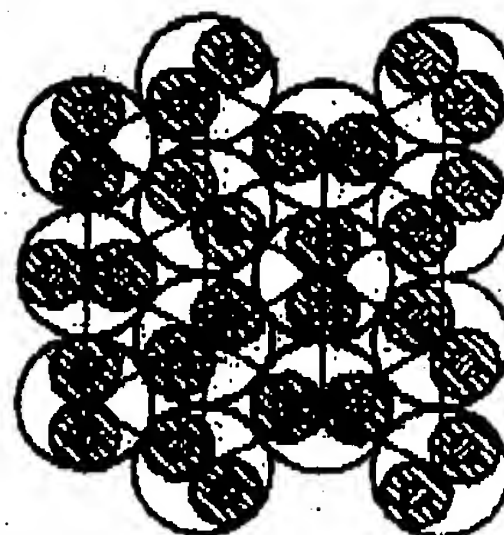
0 degree

FIG. 4A



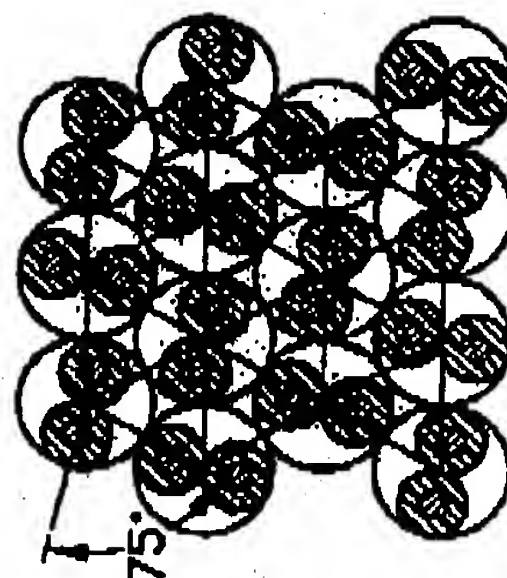
30 degrees

FIG. 4B



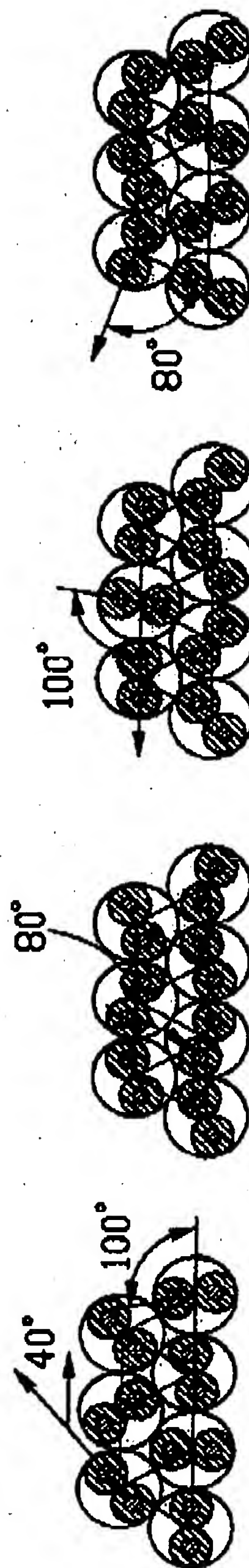
45 degrees

FIG. 4C



75 degrees

FIG. 4D



0 degree 20 degrees 40 degrees 60 degrees

FIG. 5A FIG. 5B FIG. 5C FIG. 5D

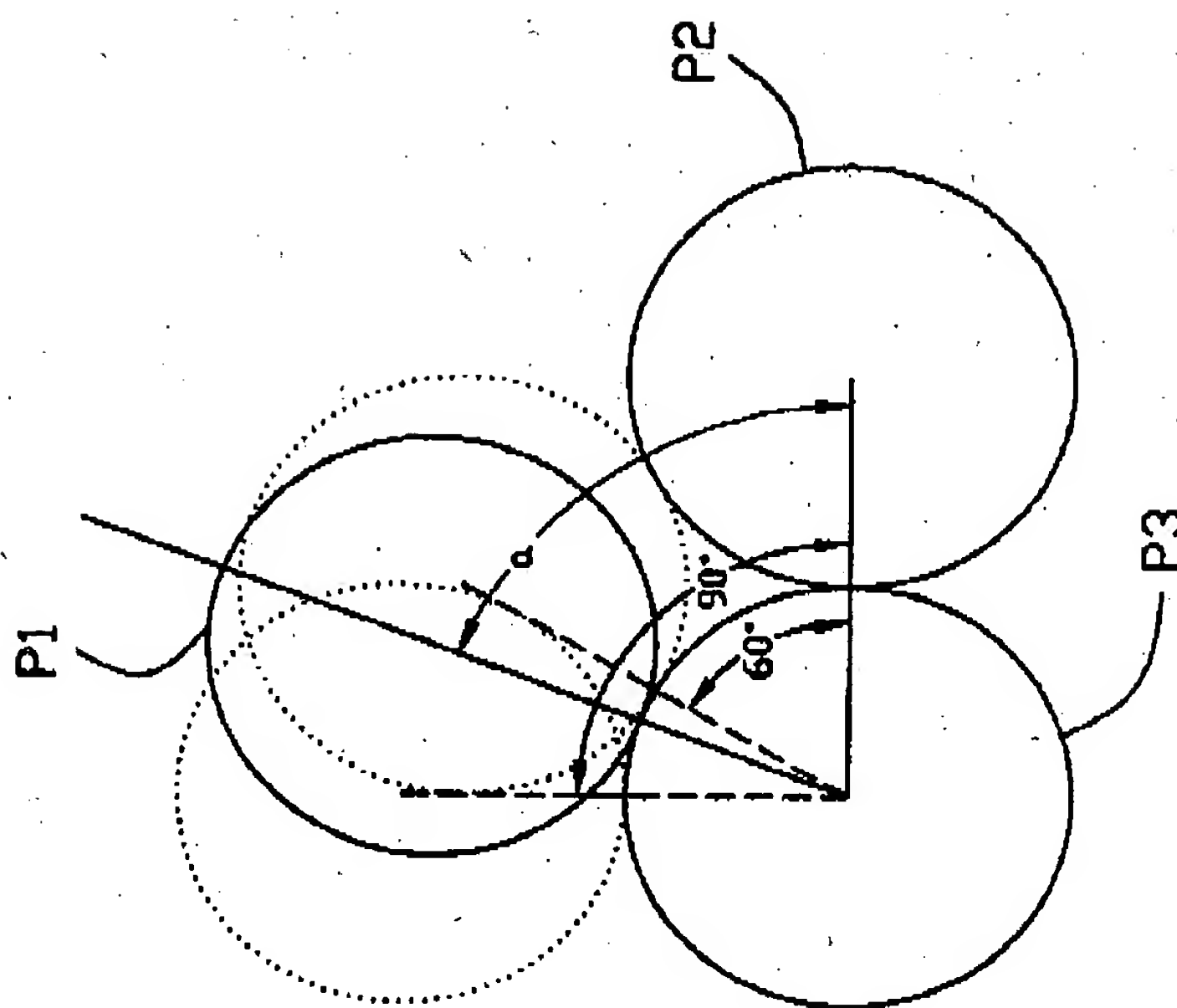


FIG. 6

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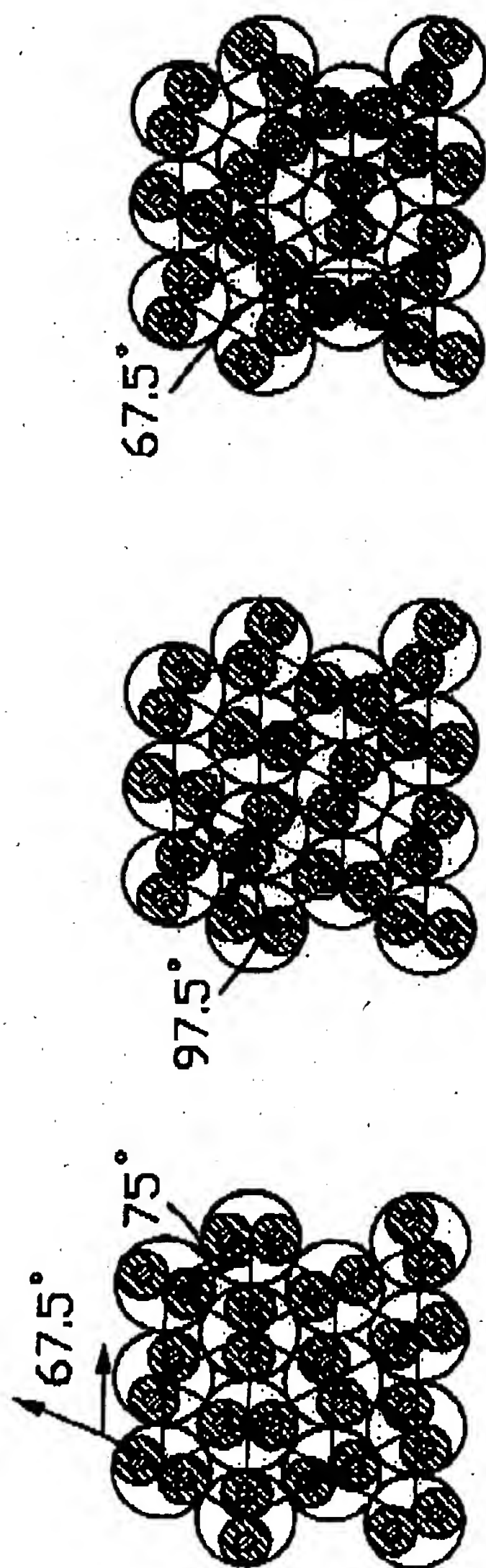


FIG. 7A

FIG. 7B

FIG. 7C